

Carrabassett Valley Sanitary District)	Departmental
Franklin County)	Findings of Fact and Order
Carrabassett Valley, Maine)	Air Emission License
A-650-71-H-R		

After review of the air emissions license renewal application, staff investigation reports and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A., Section 344 and Section 590, the Department finds the following facts:

I. REGISTRATION

A. Introduction

Carrabassett Valley Sanitary District (CVSD) of Carrabassett, Maine has applied to renew their Air Emission License permitting the operation of emission sources associated with their Carrabassett, Maine waste water treatment facility.

B. Emission Equipment

CVSD is authorized to operate the following equipment:

Fuel Burning Equipment

<u>Equipment</u>	<u>Maximum Capacity (MMBtu/hr)</u>	<u>Maximum Firing Rate (gal/hr)</u>	<u>Fuel Type</u>
Generator #1	8.9	63.1	On-road diesel

C. Application Classification

The application for CVSD does not include the licensing of increased emissions or the installation of new or modified equipment. Therefore, the license is considered to be a renewal of current licensed emission units only.

II. BEST PRACTICAL TREATMENT (BPT)

A. Introduction

In order to receive a license the applicant must control emissions from each unit to a level considered by the Department to represent Best Practical Treatment (BPT), as defined in *Definitions Regulation*, 06-096 CMR 100 (last amended December 1, 2005). Separate control requirement categories exist for new and existing equipment as well as for those sources located in designated non-attainment areas.

BPT for existing emissions equipment means that method which controls or reduces emissions to the lowest possible level considering:

- the existing state of technology;
- the effectiveness of available alternatives for reducing emission from the source being considered; and
- the economic feasibility for the type of establishment involved.

B. Generator #1

CVSD makes use of a generator, designated Generator #1. Generator #1 has a maximum heat input capacity of 8.9 MMBtu/hr (approximately 910 kW). CVSD amended the facility's previous air emission license (A-650-71-F-R, A-650-71-G-M) to establish an annual fuel use limit for Generator #1 of no greater than 40,000 gallons per year (gal/yr) of diesel fuel based on a twelve-month rolling total.

Compliance with the fuel restriction shall be demonstrated by way of a written log documenting fuel purchases. The log shall include fuel purchase receipts indicating dates of purchase, purchase quantities and sulfur content of the purchased fuel.

A summary of the BPT analysis for Generator #1 (8.9 MMBtu/hr) is as follows:

A summary of the BACT analysis for DG #1 is the following:

1. CVSD shall be restricted to an annual fuel restriction of no greater than 40,000 gal/yr of diesel fuel based on a twelve-month rolling total.
2. *Low Sulfur Fuel* 06-096 CMR 106 (last amended July 4, 1999) regulates fuel sulfur content, however in this case a BPT analysis for SO₂ determined a more stringent limit of 0.05% was appropriate and shall be used.
3. *Fuel Burning Equipment Particulate Emission Standard* 06-096 CMR 103 (last amended November 3, 1990) regulates PM emission limits. The PM₁₀ limits are derived from the PM limits.

4. NO_x, CO, and VOC emission limits are based upon AP-42 data dated 10/96 for large stationary diesel engines.
5. Visible emissions from DG #1 shall not exceed 20% opacity on a 6-minute block average, except for no more than two 6-minute block averages in a continuous 3-hour period.

C. Annual Emission Restrictions

- CVSD shall fire no greater than 40,000 gal/yr of diesel fuel, with a sulfur of no greater than 0.05% sulfur, based on a twelve-month rolling total.
- CVSD shall be restricted to the following annual emissions, based on a twelve-month rolling total:

Total Allowable Annual Emission for the Facility

<u>Pollutant</u>	<u>Tons/Year</u>
PM	0.3
PM ₁₀	0.3
SO ₂	0.14
NO _x	8.8
CO	2.3
VOC	0.25

III.AMBIENT AIR QUALITY ANALYSIS

According to *Major and Minor Source Air Emission License Regulations*, 06-096 CMR 115 (last amended December 1, 2005), the level of air quality analyses required for a minor source shall be determined on a case-by case basis. Based on the information available in the file, and the similarity to existing sources, Maine Ambient Air Quality Standards (MAAQS) will not be violated by this source. Based on the above total facility emissions, CVSD is below the emissions level required for modeling and monitoring.

ORDER

Based on the above Findings and subject to conditions listed below, the Department concludes that the emissions from this source:

- will receive Best Practical Treatment,
- will not violate applicable emission standards,
- will not violate applicable ambient air quality standards in conjunction with emissions from other sources.

**Carrabassett Valley Sanitary District)
Franklin County)
Carrabassett Valley, Maine)
A-650-71-H-R**

**Departmental
Findings of Fact and Order
Air Emission License
4**

The Department hereby grants Air Emission License A-650-71-H-R subject to the following conditions:

STANDARD CONDITIONS

- (1) Employees and authorized representatives of the Department shall be allowed access to the licensee's premises during business hours, or any time during which any emissions units are in operation, and at such other times as the Department deems necessary for the purpose of performing tests, collecting samples, conducting inspections, or examining and copying records relating to emissions (Title 38 MRSA §347-C).
- (2) The licensee shall acquire a new or amended air emission license prior to commencing construction of a modification, unless specifically provided for in 06-096 CMR 115. [06-096 CMR 115]
- (3) Approval to construct shall become invalid if the source has not commenced construction within eighteen (18) months after receipt of such approval or if construction is discontinued for a period of eighteen (18) months or more. The Department may extend this time period upon a satisfactory showing that an extension is justified, but may condition such extension upon a review of either the control technology analysis or the ambient air quality standards analysis, or both. [06-096 CMR 115]
- (4) The licensee shall establish and maintain a continuing program of best management practices for suppression of fugitive particulate matter during any period of construction, reconstruction, or operation which may result in fugitive dust, and shall submit a description of the program to the Department upon request. [06-096 CMR 115]
- (5) The licensee shall pay the annual air emission license fee to the Department, calculated pursuant to Title 38 M.R.S.A. §353.
- (6) The license does not convey any property rights of any sort, or any exclusive privilege. [06-096 CMR 115]
- (7) The licensee shall maintain and operate all emission units and air pollution systems required by the air emission license in a manner consistent with good air pollution control practice for minimizing emissions. [06-096 CMR 115]
- (8) The licensee shall maintain sufficient records to accurately document compliance with emission standards and license conditions and shall maintain such records for a minimum of six (6) years. The records shall be submitted to the Department upon written request. [06-096 CMR 115]

- (9) The licensee shall comply with all terms and conditions of the air emission license. The filing of an appeal by the licensee, the notification of planned changes or anticipated noncompliance by the licensee, or the filing of an application by the licensee for a renewal of a license or amendment shall not stay any condition of the license. [06-096 CMR 115]
- (10) The licensee may not use as a defense in an enforcement action that the disruption, cessation, or reduction of licensed operations would have been necessary in order to maintain compliance with the conditions of the air emission license. [06-096 CMR 115]
- (11) In accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department, the licensee shall:
- (i) perform stack testing to demonstrate compliance with the applicable emission standards under circumstances representative of the facility's normal process and operating conditions:
 - a. within sixty (60) calendar days of receipt of a notification to test from the Department or EPA, if visible emissions, equipment operating parameters, staff inspection, air monitoring or other cause indicate to the Department that equipment may be operating out of compliance with emission standards or license conditions; or
 - b. pursuant to any other requirement of this license to perform stack testing.
 - (ii) install or make provisions to install test ports that meet the criteria of 40 CFR Part 60, Appendix A, and test platforms, if necessary, and other accommodations necessary to allow emission testing; and
 - (iii) submit a written report to the Department within thirty (30) days from date of test completion.
[06-096 CMR 115]
- (12) If the results of a stack test performed under circumstances representative of the facility's normal process and operating conditions indicate emissions in excess of the applicable standards, then:
- (i) within thirty (30) days following receipt of such test results, the licensee shall re-test the non-complying emission source under circumstances representative of the facility's normal process and operating conditions and in accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department; and

- (ii) the days of violation shall be presumed to include the date of stack test and each and every day of operation thereafter until compliance is demonstrated under normal and representative process and operating conditions, except to the extent that the facility can prove to the satisfaction of the Department that there were intervening days during which no violation occurred or that the violation was not continuing in nature; and
- (iii) the licensee may, upon the approval of the Department following the successful demonstration of compliance at alternative load conditions, operate under such alternative load conditions on an interim basis prior to a demonstration of compliance under normal and representative process and operating conditions. [06-096 CMR 115]
- (13) Notwithstanding any other provisions in the State Implementation Plan approved by the EPA or Section 114(a) of the CAA, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any statute, regulation, or Part 70 license requirement. [06-096 CMR 115]
- (14) The licensee shall maintain records of malfunctions, failures, downtime, and any other similar change in operation of air pollution control systems or the emissions unit itself that would affect emission and that is not consistent with the terms and conditions of the air emission license. The licensee shall notify the Department within two (2) days or the next state working day, whichever is later, of such occasions where such changes result in an increase of emissions. The licensee shall report all excess emissions in the units of the applicable emission limitation. [06-096 CMR 115]
- (15) Upon written request from the Department, the licensee shall establish and maintain such records, make such reports, install, use and maintain such monitoring equipment, sample such emissions (in accordance with such methods, at such locations, at such intervals, and in such a manner as the Department shall prescribe), and provide other information as the Department may reasonably require to determine the licensee's compliance status. [06-096 CMR 115]

SPECIFIC CONDITIONS

- (16) Generator #1
- A. CVSD shall fire no greater than 40,000 gal/yr of diesel fuel based on a twelve-month rolling total. [06-096 CMR 115, BPT]
- B. CVSD shall fire only diesel fuel oil with a maximum sulfur content of no greater than 0.05% by weight in Emergency Generator #1.
[06-096 CMR 115, BPT]

Carrabassett Valley Sanitary District)
Franklin County)
Carrabassett Valley, Maine)
A-650-71-H-R

Departmental
Findings of Fact and Order
Air Emission License
7

C. CVSD shall demonstrate compliance by means of a written log documenting fuel purchases. The log shall include fuel purchase receipts indicating dates of purchase, purchase quantities and sulfur content of the purchased fuel. [MEDEP Chapter 115, BPT]

D. Emissions shall not exceed the following [MEDEP Chapter 115, BPT]:

Emission Unit		PM	PM ₁₀	SO ₂	NO _x	CO	VOC
	lb/MMBtu	0.12	-	-	-	-	-
Generator #1	lb/hr	1.1	1.1	0.5	28.5	7.6	0.8

E. Visible emissions from Generator #1 shall not exceed 20% opacity on a six-minute block average, except for no more than two 6-minute block averages in a continuous 3-hour period. [MEDEP Chapter 101]

(17) CVSD shall notify the Department within 48 hours and submit a report to the Department on a quarterly basis if a malfunction or breakdown in any component causes a violation of any emission standard (Title 38 MRSA §605-C).

DONE AND DATED IN AUGUSTA, MAINE THIS DAY OF 2008.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: _____
DAVID P. LITTELL, COMMISSIONER

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

The term of this Order shall be for five (5) years from the signature above

Date of initial receipt of application: **December 5, 2007**

Date of application acceptance: **December 12, 2007**

Date filed with the Board of Environmental Protection: _____

This Order prepared by, Peter G. Carleton, Bureau of Air Quality